

## Yukon Coal Fields.

Description.	White Pass and Yukon Railway Co., Ltd., Tantalus mine, Tantalus.					
	M. EX. 31	M. EX. 231	M. EX. 32	M. EX. 232	M. EX. 33	M. EX. 233
Sample No. ....	D	D	D	D	D	D
Moisture condition (see note p. 2) .....	D	D	D	D	D	D
Loss on air-drying .....	Anal.	Anal.	Anal.	Anal.	Anal.	Anal.
Results obtained by Proximate analysis:—						
Moisture .....	17.0	13.8	19.2	14.0	16.2	12.7
Ash .....	25.0	26.3	26.7	25.7	27.8	28.1
Volatile matter .....	58.0	59.9	54.1	60.3	56.0	59.2
Fixed carbon .....						
Ultimate analysis:—						
Carbon .....	69.8	.....	.....	.....	71.1	.....
Hydrogen .....	4.0	.....	.....	.....	4.3	.....
Ash .....	17.0	13.8	19.2	14.0	16.2	12.7
Sulphur .....	0.5	0.5	0.5	0.4	0.5	0.5
Nitrogen .....	0.8	0.8	0.9	0.8	0.7	0.8
Oxygen .....	7.9	.....	.....	.....	7.2	.....
Calorific value:—						
Calories per gram, gross .....	6700	7110	6310	7070	6790	7210
B. Th. U. per lb., gross .....	12060	12800	11360	12730	12230	12980
Fuel ratio .....	2.30	2.30	2.05	2.35	2.00	2.10
Carbon-Hydrogen ratio .....	17.5	.....	.....	.....	16.5	.....
Coking properties .....						
Hoffmann potash test .....						
Location in mine .....	Upper seam		Middle seam		Lower seam	
Kind of sample .....	Commercial		Commercial		Commercial	
Quality of coal .....	All bone, rock and slate of 1/4 inch or over discarded.	Washed coal from M. EX. 31; yield, 81%.	All bone, rock and slate of 1/4 inch or over discarded.	Washed coal from M. EX. 32; yield, 77%.	All bone, rock and slate of 1/4 inch or over discarded.	Washed coal from M. EX. 33; yield, 83%.
Taken by .....	D. D. Cairnes, Geological Survey, Ottawa.		D. D. Cairnes.		D. D. Cairnes.	
Date of sampling .....	Summer, 1908.		Summer, 1908.		Summer, 1908.	
Remarks .....						